Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD:\_\_\_\_\_\_

Quiz 1: Yes I Can, Function!

**Honors Geometry**

**Type 1**

|  |  |
| --- | --- |
| 1. Circle all the equations that represent linear functions. | 1. Image result for coordinate planeSketch an example of a linear function with a negative rate of change and a negative y – intercept. |
| 1. Describe the difference between a linear and non-linear function. | |

**Type 2**

|  |  |
| --- | --- |
| 4. What must be the value of w if the table below represents a linear relationship? Justify your response.  ( | 1. Graph the function modeled by the equation   Image result for coordinate plane . |
| 6. Write the function that passes through the points: . | |

**Type 3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. Albuquerque boasts one of the longest aerial trams in the world. The tram transports people up to Sandia Peak. The table shows the elevation of the tram at various times during a particular ride.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Minutes into the Ride** | 2 | 5 | 9 | 14 | | **Elevation (ft)** | 7069 | 7834 | 8854 | 10,129 |  1. Write an equation for a function that models the relationship between the elevation of the tram and the number of minutes into the ride. Justify your choice. 2. What was the elevation of the tram at the beginning of the ride? 3. How many minutes would it take for the tram to reach 10,384 feet? |
| 9. A line has a slope of 2. The point (6, 1) is on the line. Find the values of c and d so that these points are on the line. All work must be shown in order to receive credit. |